SVETLANA TECHNICAL DATA
SV83
Audio Power Pentode



The Svetlana™ SV83 is a miniature glass-envelope power pentode intended for use as a driver or output device in high-quality audio amplifiers. Features include plate dissipation 12 watts; low distortion; high transconductance; internally shielded for low hum pickup; and pinout compatibility—EL84 can be used in an SV83 circuit without modification. The highly linear SV83 is similar to the EL84 with the exception of basing connections and screen-grid ratings.

Characteristics

Electrical

Cathode	Oxide-coated, unipotential	
Heater voltage (AC or DC)	6.3 volts AC or DC (±0.6 volts)	
Heater current	760 mA ±60 mA	
Heater-cathode voltage	±100 volts peak	
Amplification factor (nominal)	25	
Transconductance (nominal)	15,000	µS
Interelectrode capacitances (typical), with cathode grounded:		
Grid to cathode	13.5	pF
Anode to cathode	7.0	pF
Grid to anode	0.07	pF

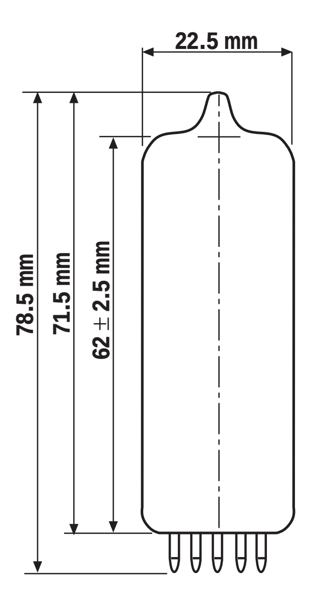
Mechanical

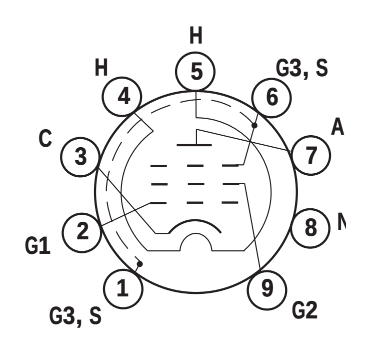
Base	standard 9-pin miniature, glass button
Basing diagram	see below
Socket	standard 9-pin miniature
Operating position	Any (vertical for convection cooling)
Nominal dimensions:	
Height of glass envelope	71.5 mm (2.81 in.)
Diameter of glass envelope	22.5 mm (.89 in.)
Overall height	78.5 mm (3.09 in.)
Net weight	20 g (.71 oz.)

Maximum ratings

Anode voltage, DC	300	V
Anode dissipation	12	W
Screen voltage, DC	200	V
Screen dissipation	1.5	W
Cathode current, continuous	90	mA
Grid voltage	-450	V
Maximum grid-circuit resistance (self-bias)	1 megohm	
Envelope temperature	200 °	C

Svetlana Outline drawing







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